

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1338911

Luminaire Tested: P3A05R409050DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R409050DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

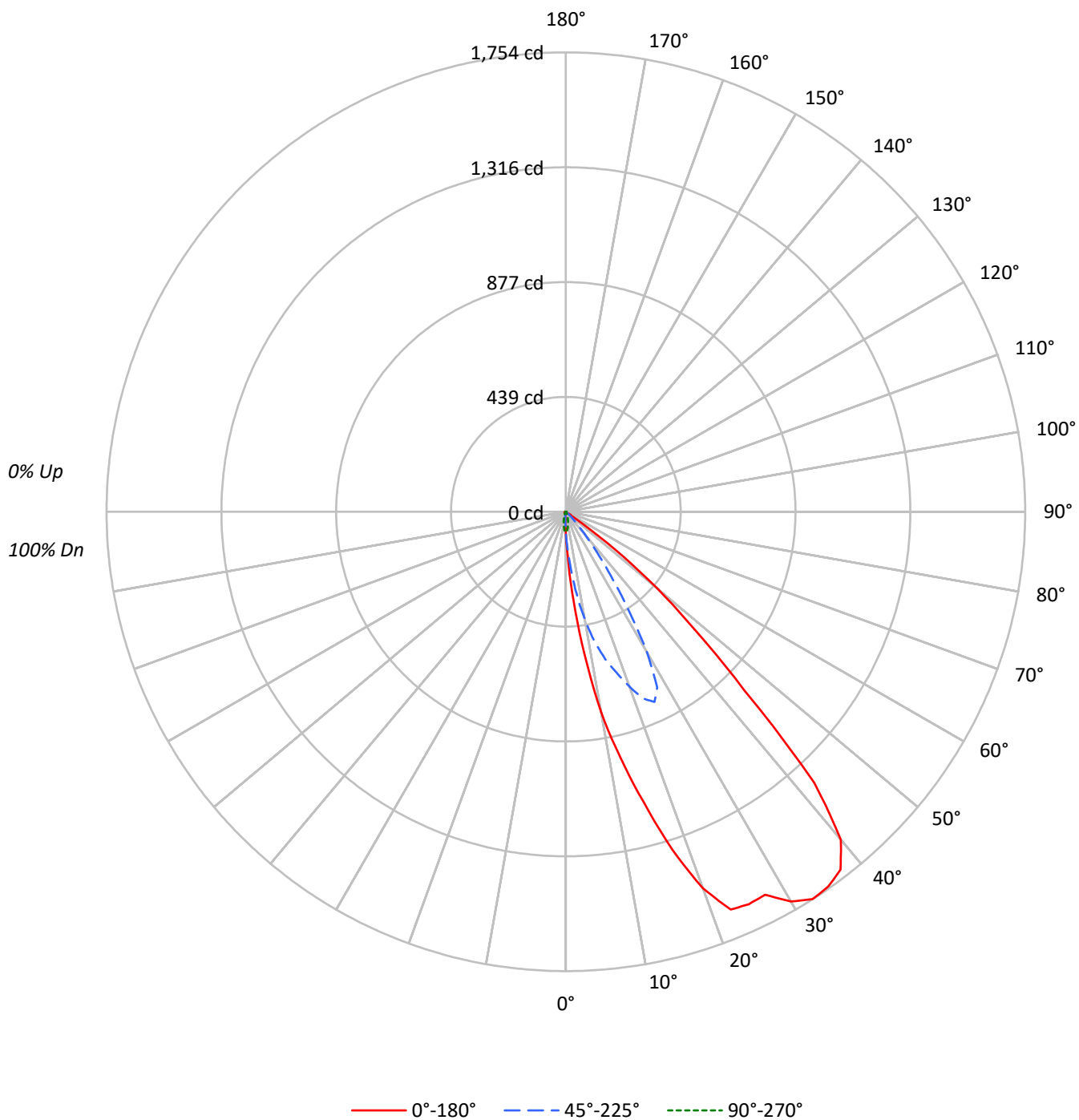
Lumens per Lamp: N/A
Luminaire Lumens: 646.9 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16797	16797	16797	16797	16797
5°	75721	48272	15056	5767	4204
10°	173633	93274	10599	2071	1581
15°	260569	132328	6583	1112	999
20°	356774	165891	3827	630	770
25°	399967	193826	1984	532	653
30°	435029	156454	836	405	684
35°	467551	80067	294	589	883
40°	467705	31946	143	630	1088
45°	298636	10699	341	1023	1520
50°	155014	1296	546	1296	1876
55°	13381	191	612	1682	2294
60°	482	219	702	1930	2631
65°	571	259	1141	1972	2854
70°	321	321	1410	2116	2821
75°	424	424	1356	2288	3219
80°	631	631	2020	2020	2778
85°	0	1258	4026	2768	2768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 298636 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.9	2.3
10°-20°	87.6	13.5
20°-30°	191.8	29.6
30°-40°	218.5	33.8
40°-50°	115.3	17.8
50°-60°	13.6	2.1
60°-70°	2.4	0.4
70°-80°	2.0	0.3
80°-90°	0.9	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	294.3	45.5
0°-40°	512.8	79.3
0°-60°	641.6	99.2
0°-90°	646.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	646.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	77	77	77	77	77	
5°	344	219	68	26	19	46
15°	1148	583	29	5	4	338
25°	1653	801	8	2	3	762
35°	1747	299	1	2	3	1083
45°	963	34	1	3	5	776
55°	35	0	2	4	6	109
65°	1	0	2	4	6	1
75°	0	0	2	3	4	1
85°	0	0	2	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
2.5°	170.6	170.6	170.1	165.1	164.6	164.0	155.3	153.1	142.7	135.6	103.4
5°	344.0	336.3	335.8	327.0	312.2	292.6	280.0	259.7	240.1	219.3	127.4
7.5°	547.9	554.5	536.4	527.1	494.3	470.8	434.7	403.0	358.7	317.2	147.1
10°	779.8	768.3	750.3	732.2	696.7	654.6	601.0	544.6	480.7	418.9	158.0
12.5°	960.8	946.0	935.1	910.5	875.5	821.3	757.4	681.9	597.1	508.0	157.5
15°	1147.8	1133.0	1108.4	1086.6	1034.6	973.9	904.5	804.9	701.0	582.9	146.0
17.5°	1353.4	1334.3	1306.9	1273.6	1223.3	1156.0	1068.0	946.6	799.5	644.2	125.2
20°	1528.9	1517.5	1490.1	1450.7	1401.5	1335.9	1234.2	1099.7	920.3	710.9	99.5
22.5°	1643.8	1633.4	1614.8	1580.3	1543.2	1473.2	1380.2	1232.6	1021.5	771.6	75.5
25°	1653.1	1648.7	1643.8	1632.3	1609.9	1560.1	1469.3	1310.2	1084.4	801.1	55.8
27.5°	1648.2	1646.5	1645.4	1639.4	1624.6	1575.4	1482.5	1321.7	1076.2	755.2	41.0
30°	1718.1	1713.2	1710.5	1690.8	1652.0	1576.0	1454.6	1259.9	956.4	617.9	29.5
32.5°	1753.7	1752.6	1749.9	1730.7	1676.0	1577.1	1407.5	1110.6	758.5	446.2	20.2
35°	1746.6	1741.1	1731.3	1695.7	1619.7	1495.6	1255.5	887.0	547.4	299.1	13.1
37.5°	1722.5	1709.9	1690.8	1626.8	1525.7	1356.1	1018.2	652.9	372.4	193.6	7.7
40°	1633.9	1617.0	1586.9	1508.7	1375.8	1117.7	753.0	441.3	244.4	111.6	2.2
42.5°	1404.8	1382.9	1361.1	1273.6	1121.6	833.4	495.4	272.9	139.4	61.2	0.5
45°	963.0	935.6	905.6	842.1	720.2	504.7	294.7	153.7	72.2	34.5	0.5
47.5°	668.8	656.2	603.7	522.8	400.8	267.4	152.6	75.5	38.3	15.9	0.5
50°	454.4	440.2	379.0	300.8	213.3	128.0	70.0	37.7	17.0	3.8	0.5
52.5°	238.4	220.9	182.1	138.9	86.4	53.6	30.6	16.4	4.9	0.5	0.5
55°	35.0	32.3	26.2	21.3	19.1	14.8	8.7	3.8	0.5	0.5	1.1
57.5°	1.1	1.1	1.1	1.1	1.6	1.6	1.1	0.5	0.5	0.5	1.1
60°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.1
62.5°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.1
65°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.1
67.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.1	1.6
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.6
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.6
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	76.6	76.6	76.6	76.6	76.6
2.5°	75.5	55.8	43.2	37.2	36.6
5°	68.4	39.9	26.2	20.2	19.1
7.5°	58.0	27.9	15.3	10.9	10.4
10°	47.6	19.1	9.3	7.7	7.1
12.5°	37.7	12.6	6.6	6.0	5.5
15°	29.0	8.2	4.9	4.4	4.4
17.5°	21.9	5.5	3.8	3.8	3.8
20°	16.4	3.8	2.7	3.3	3.3
22.5°	11.5	2.7	2.2	2.7	2.7
25°	8.2	2.2	2.2	2.7	2.7
27.5°	5.5	1.6	1.6	2.2	2.7
30°	3.3	1.1	1.6	2.2	2.7
32.5°	1.6	1.1	1.6	2.7	2.7
35°	1.1	1.6	2.2	2.7	3.3
37.5°	0.5	1.6	2.2	3.3	3.3
40°	0.5	1.6	2.2	3.3	3.8
42.5°	1.1	2.2	2.7	3.8	4.4
45°	1.1	2.2	3.3	4.4	4.9
47.5°	1.1	2.2	3.8	4.9	4.9
50°	1.6	2.7	3.8	4.9	5.5
52.5°	1.6	2.7	3.8	5.5	6.0
55°	1.6	2.7	4.4	5.5	6.0
57.5°	1.6	3.3	4.4	5.5	6.0
60°	1.6	2.7	4.4	5.5	6.0
62.5°	2.2	2.7	3.8	5.5	5.5
65°	2.2	2.7	3.8	5.5	5.5
67.5°	2.2	2.7	3.8	4.9	4.9
70°	2.2	2.7	3.3	4.4	4.4
72.5°	2.2	2.7	3.3	3.8	4.4
75°	1.6	2.2	2.7	3.3	3.8
77.5°	1.6	2.2	2.2	3.3	3.3
80°	1.6	1.6	1.6	2.2	2.2
82.5°	1.6	1.6	1.1	1.6	1.6
85°	1.6	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)